

Amendments to the Claims:

The following listing of claims replaces all prior versions and listings of the claims in this application.

Listing of the Claims:

Claims 1 – 2 (Cancelled).

Claim 3 (Original): A poly(arylene sulfide) having a bis(4-chlorophenyl) sulfide content lower than 50 ppm as determined by a gas chromatographic analysis, a melt viscosity value (MV1) of 30 to 500 Pa·s as measured at a temperature of 310°C and a shear rate of 1,216 sec⁻¹, a ratio (MV2/MV1) of a melt viscosity value (MV2) of the poly(arylene sulfide) after a reaction with aminosilane to a the melt viscosity value (MV1) before the reaction exceeding 2.0 as measured at a temperature of 310°C and a shear rate of 1,216 sec⁻¹, and a yellow index of at most 10.

Claim 4 (Original): The poly(arylene sulfide) according to claim 3, wherein the bis(4-chlorophenyl) sulfide content is at most 30 ppm, the ratio (MV2/MV1) is 2.1 to 3.0, and the yellow index is at most 7.

Claim 5 (Currently Amended): A process for producing a poly(arylene sulfide) by polymerizing a sulfur source and a dihalo-aromatic compound in an organic amide solvent, which comprises the respective steps of:

(1) a dehydration step of heating and reacting a mixture containing the organic amide solvent, an alkali metal hydrosulfide, and an alkali metal hydroxide in a proportion of 0.95 to 1.05 mol per mol of the alkali metal hydrosulfide to discharge at least a part of a distillate containing water from the interior of the system containing the mixture to the exterior of the

system, wherein hydrogen sulfide formed upon the dehydration is discharged as a gas to the exterior of the system,

(2) a charging step of adding an alkali metal hydroxide and water to the mixture remaining in the system after the dehydration step, as needed, to control the total number of moles of (i) an alkali metal hydroxide formed with hydrogen sulfide formed upon the dehydration, (ii) the alkali metal hydroxide added prior to the dehydration, and (iii) the alkali metal hydroxide added after the dehydration, and to control the number of moles of (iv) water, to provide ~~1.00 to 1.09~~ 1.015 to 1.075 moles of (i)-(iii) per mol of a sulfur source (hereinafter referred to as "charged sulfur source") including the alkali metal hydrosulfide existing in the system after the dehydration and 0.5 to 2.0 moles of (iv) per mol of the charged sulfur source,

(3) a first-stage polymerization step of adding a dihalo-aromatic compound to the mixture to subject the sulfur source and the dihalo-aromatic compound to a polymerization reaction at a temperature of 170 to 270°C, thereby forming a prepolymer with a conversion of the dihalo-aromatic compound of 50 to 98%, and

(4) a second-stage polymerization step of controlling the amount of water in the reaction system after the first-stage polymerization step so as to bring about a state that water exists in a proportion of more than 2.0 mol, but up to 10 mol per mol of the charged sulfur source, and heating the reaction system to 245 to 290°C, thereby continuing the polymerization reaction, to provide a resulting poly(arylene sulfide) having a bis(4-chlorophenyl) sulfide content lower than 50 ppm as determined by a gas chromatographic analysis, a melt viscosity value (MV1) of 30 to 500 Pa·s as measured at a temperature of 310°C and a shear rate of 1,216 sec⁻¹, a ratio (MV2/MV1) of a melt viscosity value (MV2) of the poly(arylene sulfide) after a reaction with aminosilane to the melt viscosity value (MV1) before the reaction exceeding 2.0 as

measured at a temperature of 310°C and a shear rate of 1,216 sec⁻¹, and a yellow index of at most 10.

Claim 6 (Original): The production process according to claim 5, wherein in the dehydration step, the alkali metal hydrosulfide and the alkali metal hydroxide are supplied as respective aqueous mixtures, and a mixture containing them is heated.

Claim 7 (Original): The production process according to claim 5, wherein in the dehydration step, the mixture is heated to a temperature of 100 to 250°C.

Claims 8 – 9 (Cancelled).

Claim 10 (Original): The production process according to claim 5, wherein in the first-stage polymerization step, a prepolymer having a melt viscosity of 0.5 to 30 Pa·s as measured at a temperature of 310°C and a shear rate of 1,216 sec⁻¹ is formed.

Claim 11 (Original): The production process according to claim 5, which further comprises, after the second-stage polymerization step,

(5) a separation step of separating a polymer formed from a reaction mixture containing the polymer, and

(6) a washing step of washing the polymer thus separated with an organic solvent.

Claim 12 (Original): The production process according to claim 11, wherein in the separation step, the polymer is separated from the reaction mixture by sieving.

Claim 13 (Original): The production process according to claim 11, wherein the organic solvent used in the washing step is acetone.

Claims 14 – 16 (Cancelled).